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I Claim:

Claim 1: A microtome for the production of tissue sections in histology, in which an object to be sectioned is passed past a stationary knife for production of said tissue section, comprising:

a disk-shaped knife (3), which has the shape of a regular polygon, with edges that comprise cutting edges (4), and

a knife holder (1) with a knife receiver (2) for arresting and positioning said disk-shaped knife (3),

wherein said knife receiver (2) is constructed for reception of said knife (3), and,

wherein said knife receiver (2) has a shaft (5) by which said knife (3) is rotatable such that said cutting edges (4) are positionable for cutting an object.

Claim 2: The microtome according to Claim 1, wherein said knife holder (1) has a depression (6) for reception of said knife (3) and for protection of said cutting edges (4), with an opening (7) that serves for working use of one of said cutting edges (4).

Claim 3: The microtome according to Claim 1, wherein said knife receiver (2) comprises a rotatable mounting (8) for said knife (3).

Claim 4: The microtome according to Claim 3, wherein said rotatable mounting (8) has a positioning element (9) for said knife (3), by which positioning element (9) said cutting edges (4) of said knife (3) come into a defined position relative to said mounting (8).

Claim 5: The microtome according to Claim 4, wherein said knife holder (1) has a detent (10) for said rotatable mounting (8) that latches when one of said cutting edges (4) is situated in a cutting position.

Claim 6: The microtome according to Claim 3, wherein said knife receiver (2) has a plane surface (11) arranged such that said knife (3) is positionable between said plane surface and

said rotatable mounting (8).

Claim 7: The microtome according to Claim 1, further comprising a numbering arrangement (12) assigned to said cutting edges (4) of said knife (3).

Claim 8: The microtome according to Claim 1, further comprising a releasable stop (13) for rotation of said knife (3) for location of said knife (3) in cutting positions.

Claim 9: The microtome according to Claim 1, wherein said knife holder comprises a knife holder housing (14) that is chamfered left and right of a location (15) for said cutting edge (4) when said cutting edge is in a position for use.

Claim 10: The microtome according to Claim 1, wherein said knife holder comprises a knife holder housing (14) that is rounded off left and right of a location (15) for said cutting edge (4) when said cutting edge is in a position for use.

Claim 11: A microtome for production of tissue sections in histology, in which an object to be sectioned is passed past a stationary knife for production of said tissue sections, wherein said knife is disk-shaped in the shape of a regular polygon, and said knife has edges that are cutting edges (4).

Claim 12: The microtome according to Claim 11, wherein said knife has a bore (17) in its middle for reception of a knife holder (1) in a knife receiver (2).

Claim 13: The microtome according to Claim 11, wherein said knife has an engagement for a positioning element (9) of a knife receiver (2).

Claim 14: The microtome according to Claim 11, wherein said knife comprises an octagon shape.